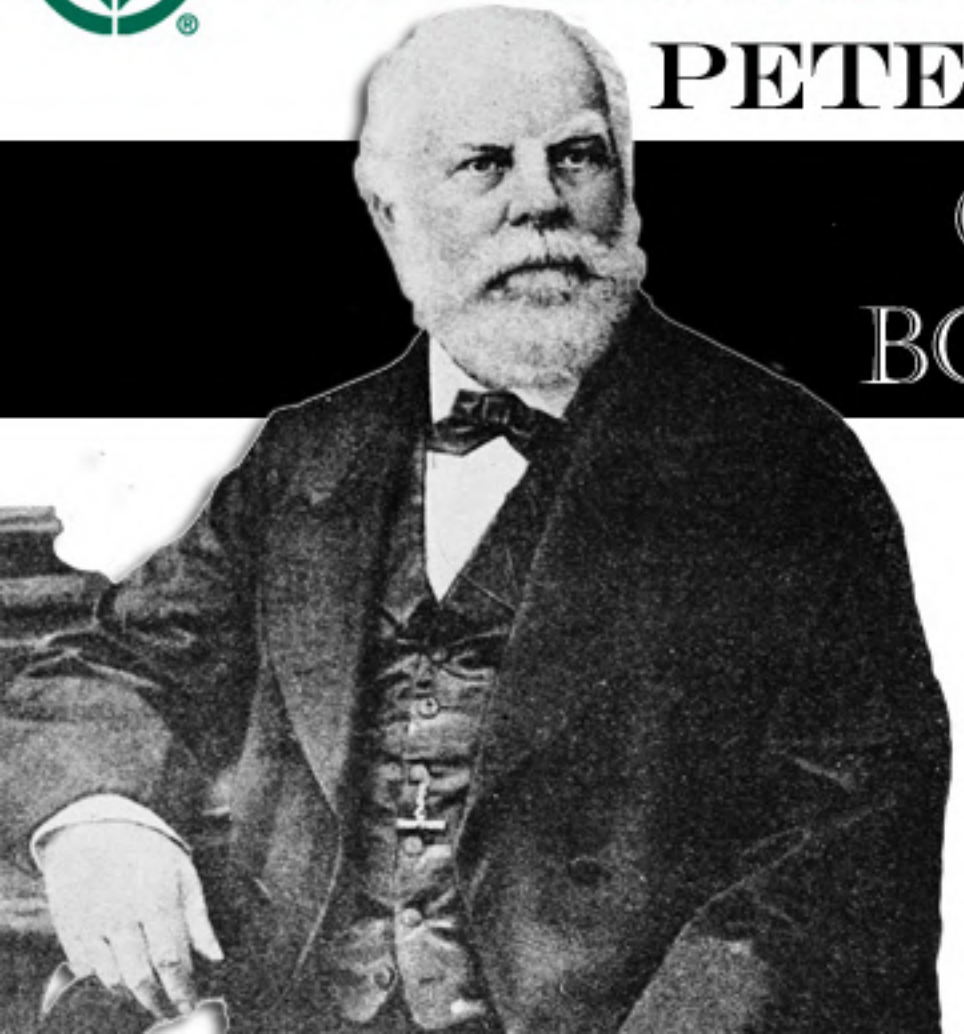
Missouri Botanical Garden

Peter H. Raven Library

George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

21-31 21

...adei... M...
...The...
Plan...
...es, Blackberries, Asparagus Plants, &c., &c.

M...

...ata,
...sea,
...spa,
...umb...
...umb...
...umb...
...sculen...
...rpur...
...asis ...
...nsis ...
...raca...
...sa ...
...iosa ...
...choid...

HYACINTH GLASSES.

In various colors, 25c. each, $2.50 per doz. **Vase shaped,** and various other styles at 50c. to $1.00 each.

...atalogue.

...des.

...pidly covering arbors, trellis ...hite; very fragrant, growing ...n.

Planting.

	Each
.....	$1.50
...en.....	25
.....	25
...ue flowers.....	1 00
.....	1 00
.....	1 00
..... 50c. to	1 00
..... 50c. to	1 00
...ers pure white in bedding out.....	1 00
.....	1 00
.....	40
.....	50
.....	40
.....	50

MISSOURI BOTANICAL GARDEN
0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved

Time of Planting, April 1st to June 1st.

Double, extra strong bulbs..... 15 cents each, $1.50 per dozen, $10.00 per hun
" *strong flowering bulbs*..... 10 cents each, $1.00 per dozen, $8.00 per hun
Single, " " " very desirable for forcing.....20 cents each, $2.00 per d
" *with variegated foliage,* leaves of this variety are very handsomely striped (new).....7

Ismene Calathine.

Very strong growing bulbs with dark green foliage, belonging to the Amaryllis fa
flowers large in clusters, pure white and very fragrant. After first frost take up the bulb
store away in dry sand, free from frost during winter. Large flowering bulbs, 75 cts.
$7.00 per dozen.

Time of Planting, April 1st to June 1st.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN
5588

mbellatus, (African Lily,) blooming in large clusters, blue flowers...
mbellatus albus, (White African Lily,) .....
mbellatus variegatus, with beautiful striped leaves.....
culentum, foliage plants, with large dark green foliage.....

1 00
1 00
1 00
50c to 1 00
50c to 1 00

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

Boussingaultia Baseloides.

(*Madeira Vine.*)

The Madeira or Mignonette is one of the finest plants for rapidly covering arbors, trellis work, &c. The leaves are dark glossy green, flowers feathery white; very fragrant, growing 15 feet high.—Price, large roots, 5 cents each, 50 cents per dozen.

Time of Planting, April 1st to June 1st.

Miscellaneous Bulbs for Spring Planting.

	Each
Amaryllis vitata, crimson, very large flowers	$1.50
" *rosea,* small pink flowers, very free bloomer, $2.50 per dozen	25
" *crispa,* blooming in small clusters	25
Agapanthus umbellatus, (African Lily,) blooming in large clusters, blue flowers	1 00
" *umbellatus albus,* (White African Lily,)	1 00
" *umbellatus variegatus,* with beautiful striped leaves	1 00
Caladium Esculentum, foliage plants, with large dark green foliage	50c. to 1 00
Caladium purpureum, deep purple stems, dark purplish green leaves	50c. to 1 00
Crinum capensis album, (*Amaryllis longifolia,*) leaves very long, flowers pure white in clusters; valuable decorative plant, suitable for bedding out	1 00
Crinum capensis roseum, same as above, pale rose colored	1 00
Phycella chloracara	40
" *obtusa*	50
" *gloriosa*	40
" *fuschoid*[illegible]	50

0 per hundred.
0 per hundred.
2,00 per dozen.
w).....75 cts.

aryllis family,
the bulbs and
75 cts. each,

Missouri Botanical Garden
cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved

MISSOURI BOTANICAL GARDEN
ENGELMANN PAPERS

Hardy Herbaceous Plants,

WITH TUBEROUS ROOTS.

This class of Hardy Herbaceous Plants are among the most desirable in cultivation. Being once planted, they require no more than ordinary culture, and from year to year increase in size and beauty.

For other Herbaceous Plants, not in this list, see our Spring Catalogue, page 66 to 71.

Plant October 1st to December 1st, during winter in open weather.

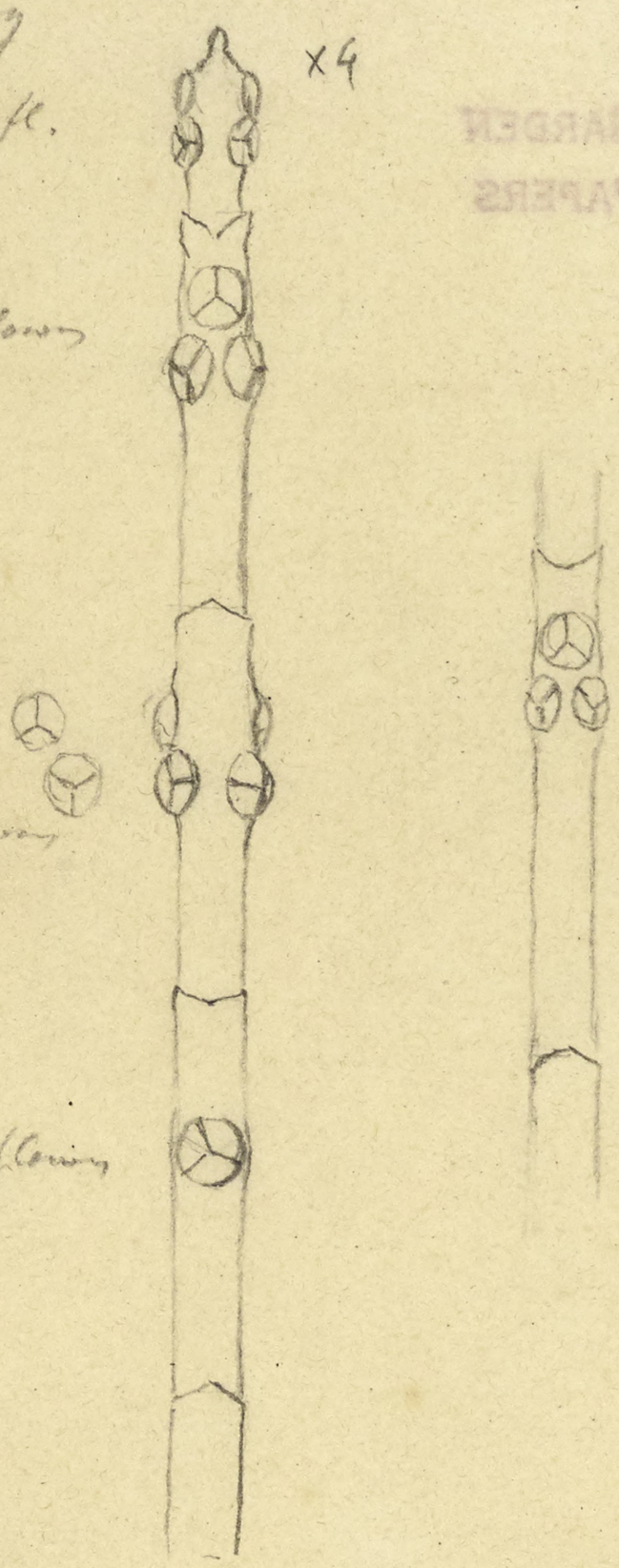
	Dozen.
Funkia Japonica, pure white, trumpet-shaped flowers, very fragrant. All the Funkias should be planted in a partially shaded place; each 50c	$5.00
Funkia Coerulea, (Blue Day Lily,) each 15c	1.50
" " *grandiflora,* (Day Lily,) large blue flowers, each 20c	2.00
Hemoricalis fulva, (Orange Lily,) large yellow flowered, each 15c	1.50
" *fulva fol. variegata,* (Orange Lily,) with beautiful, striped leaves, each 50c	
" *fulva fl. pl.,* (Double Orange Lily,), each 75c	
" *graminea,* (Lemon Lily,) beautiful lemon yellow flowers resembling Lilies, with a delicious fragrance, each 25c	2.50
Iris Germanica, (Fleur de Lis,) many choice	
" *Pumilla,* (Dwarf	

6855

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

903 Phoradendron Febr 26 1872

Gorgg



MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

5590

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LEITCH.

APOTHECARY & PHARMACEUTIST.

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

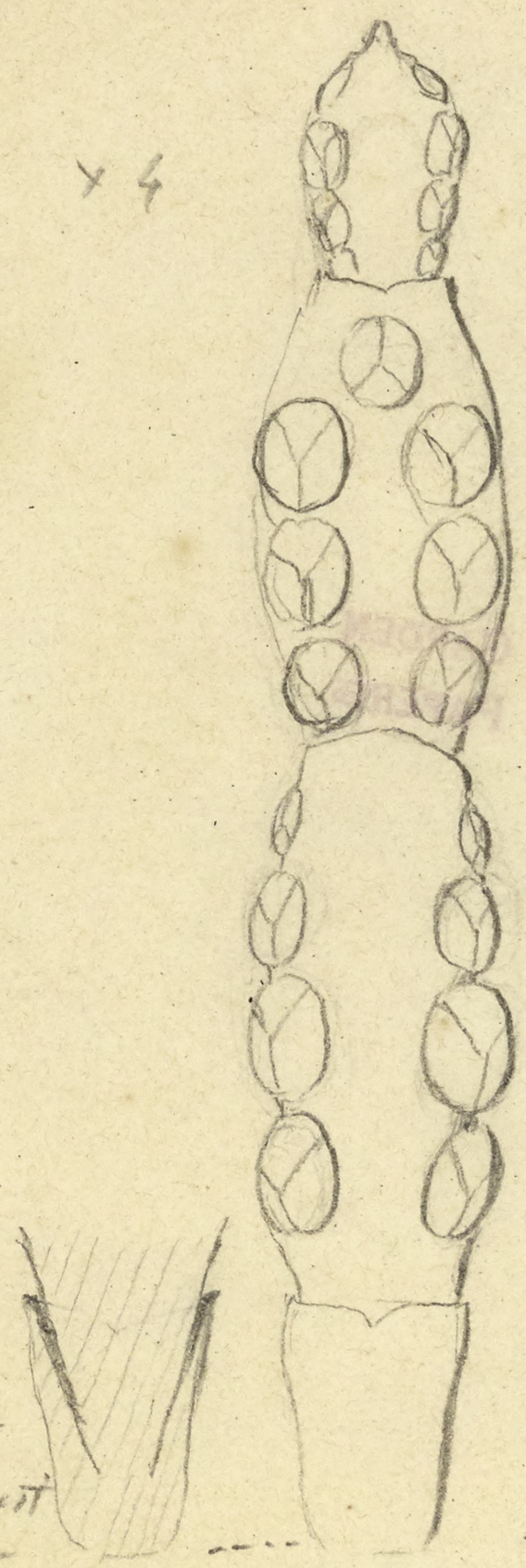
Gregg 785

Febr 26 1872

on Palo bova (Convolvulus

♀ immature buds

× 4



section of lowest joint

section of another lowest joint

another section

BOTANICAL GARDEN LIBRARY
Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299 U.S.A.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIS.

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

GEORGE ENGELMANN PAPERS
MISSOURI BOTANICAL GARDEN

5591

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

785

glabrum.

floribus axillaris juniorib⁹ ramum d[elatis] conspicuis

folia linear-lanceolata, 3–5 pollicaria

l. ramei vel summi

parce ciliolata

spicam 1 rapim gradatim basi (cataphyllis

auctis) imbricatae 3(–4) articulata

articuli cylindrici toti floriferi 2 × (3–5) flori

flores 2 × 2 seriati

This may be Ph. nervosum Ole. Copenhag. Naturhist.

1864 p. 175, non Ph. flavum Gris (Bot.) stick latter

vaginae cataphyllares on very joint, 2–4 lin. above it

Ent. nervosum has not

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

5592

ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Phor. lanceolatum Eng N. Fink Febr 27 1872

255 Dr Gregg, in Live oak, Alvarado

--- undeveloped

flowers of the 4th and
uppermost joint

x10

open anther

closed anther

lateral
view

Pollen x 415

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

5593

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LETTELL,
APOTHECARY & DRUGGIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Rhododendron lanceolatum Lagt—

M. Zuk. 59. nota

Gregg 255, an Liveoak nun Rhododendron

Gabonien, nun Tuckeia

folia lineari—lanceolata 3 nunia

Verticillo oppositis 5—7 articulata

articuli 2 x 3(—5—7—9) flori

flores 2 x 2 seriati cum impari

Series 1—2—4 flori

5594

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LEITCH.
APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

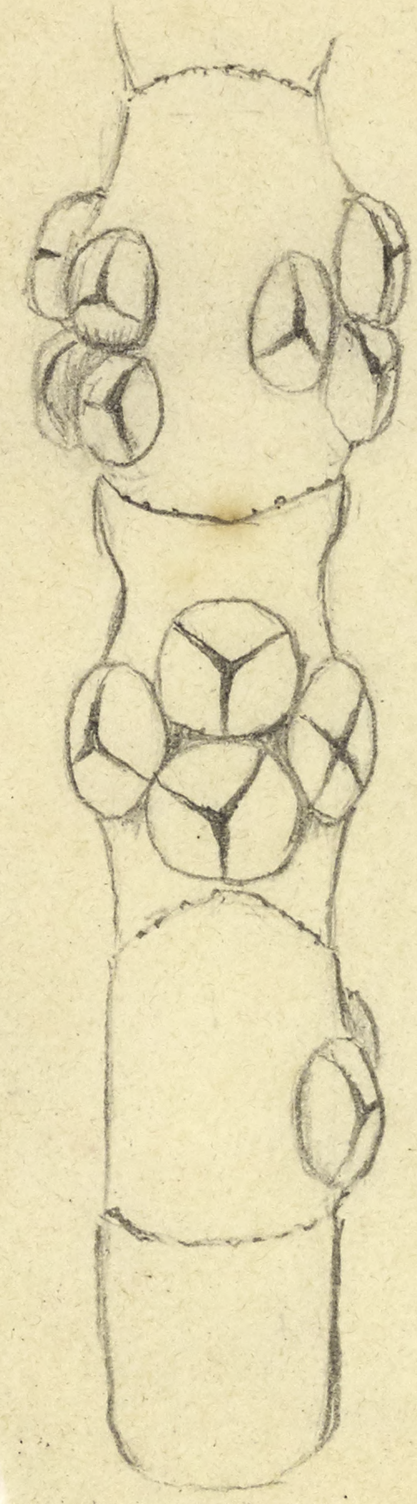
0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Gregg No 722

Febr 28 1872

♀

5–6 articuli

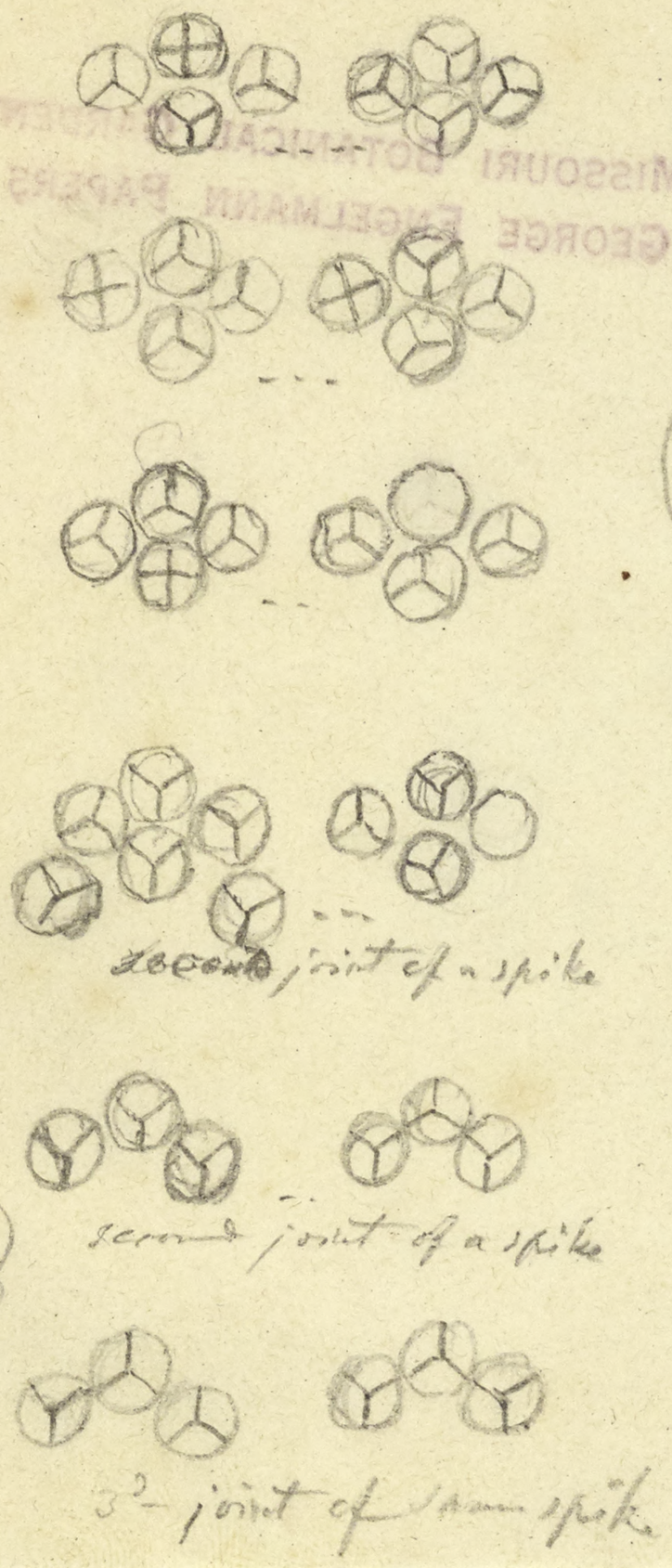


6

4

4

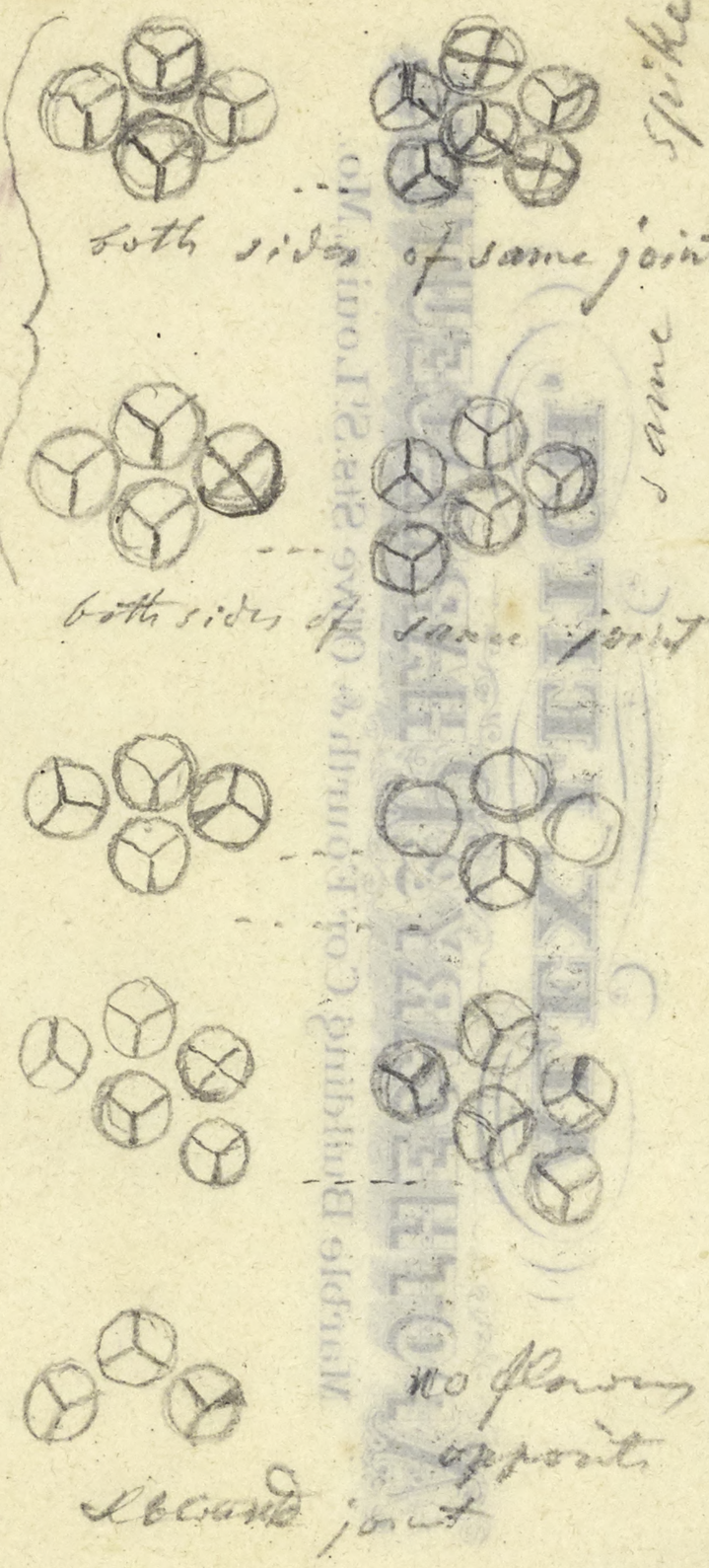
3



second joint of a spike

second joint of a spike

3d joint of same spike



both sides of same joint

Spike

same

both sides of same joint

second joint

no glands opposite

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN HERBARIUM
Missouri Botanical Garden 2345 Tower Grove Ave. St. Louis, MO 63110

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

3595

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LETICH.
APOTHECARY & PHARMACEUTIST.
Marble Building Cor Fourth & Olive Sts. St Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

722

caulis junior compressus aureo-
glabescinus

folia majuscula ovata petiolata 3 nervia
vel senae
spicis quaternis 4-6 articulata

articuli brevis 2×(3-6) flori

flores 2×3 seriati ∞ impari

articulus 2ⁱ supra flores solus uno
latere 1-3 gerentes

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

5596

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

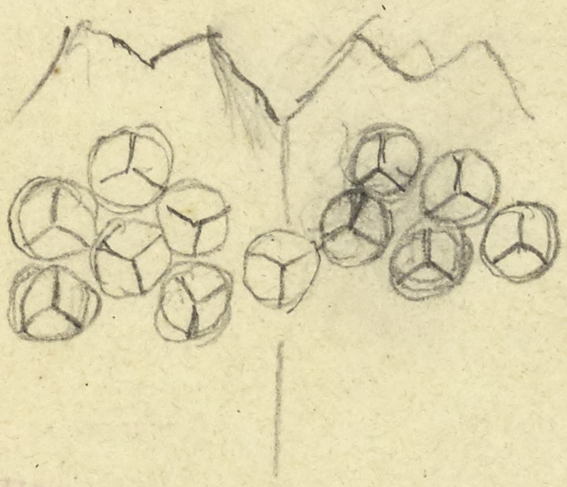
ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST.
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

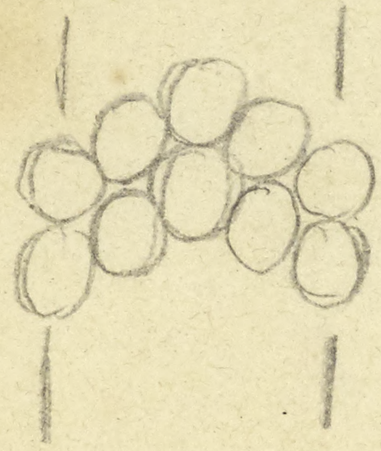
Gray 1202

Febr 28 1872

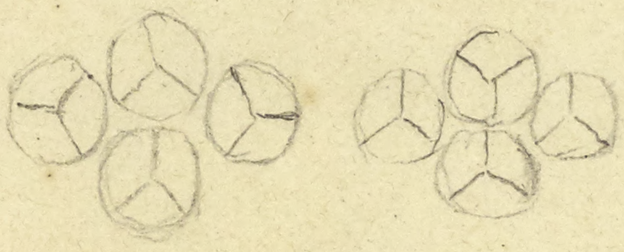
× 4



14 = 2 × 7
flowers



16 = 2 × 8
flowers



MISSOURI BOTANICAL GARDEN ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

5597

0 1 2 3 4 5 6 7 8 9 10 cm
copyright reserved
MISSOURI BOTANICAL GARDEN

1202 Greyville

turiones juniores pubescentes

folia linearia-spathulata obtusa 1-v. obscure 3-nervia

spicae oppositae (3-) 5-articulatae pubescentes

articuli abbreviati (12 flori)

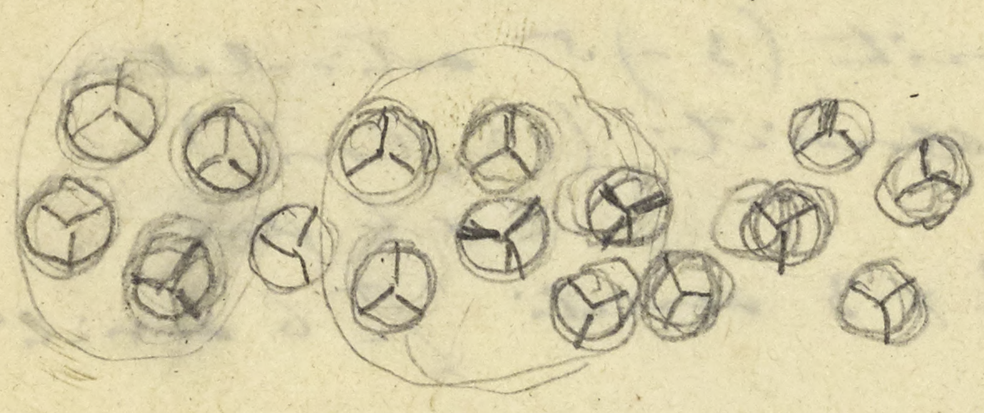
2 × 6 flori

flores 2 × 3 seriati [= 6 seriati = articulo]

series plerumque 5-flori

MISSOURI BOTANICAL GARDEN LIBRARY
copyright reserved
0 1 2 3 4 5 6 7 8 9 10
cm
MISSOURI BOTANICAL GARDEN

5598



MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LETTELL.
APOTHECARY & PHARMACEUTIST.
Marble Building Cor Fourth & Olive Sts. St Louis, Mo.

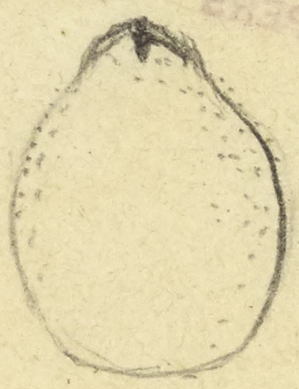
0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

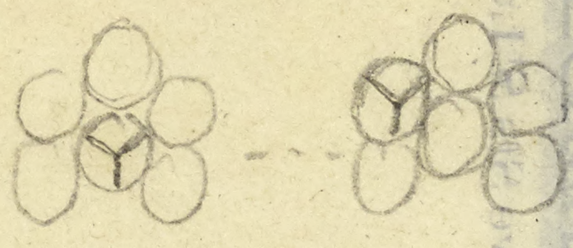
Dr Gray 895

March 1 1872

fruit ×4

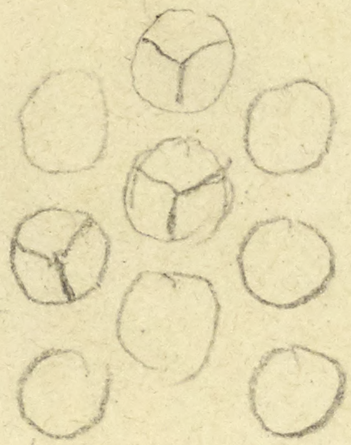
flower ×4



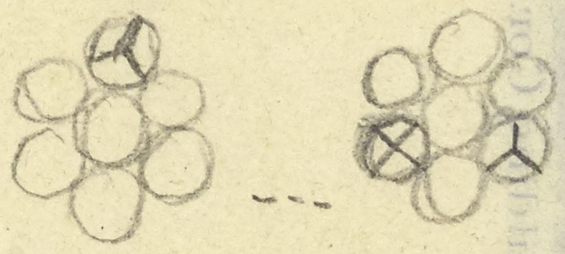


copper mint

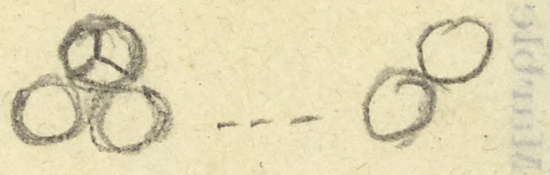
joint



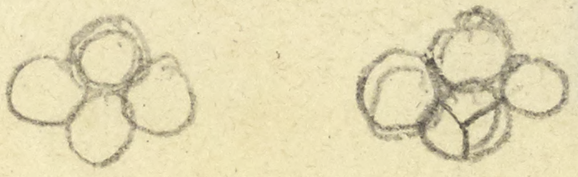
2×9 flowered joint



only one to a perfect flower seen



upper most joint



upper most

lowest joint

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

5596

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

895 grey

Juniperus pubescens, nunc glabrata

folia oblanceolato-oblonga obtusa basi attenuata
tri hunc

apice opposita v quaternae villosulae

articuli breves 4-5 2×(4-6-9) flori

toti floriferi

flores 2 × 3 zonati

3600

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LEITCH.
APOTHECARY & PHARMACEUTIST.
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Phor rubrum

Cuba Wright

March 1 1872

×4

berry ×4

MISSOURI BOTANICAL GARDEN
ERDMAN HERBARIUM PAPER
VELEX
PHOTOGRAPH

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

5601

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LETCH.
APOTHECARY & PHARMACEUTIST.
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

903.

Glabrissimum 4 angulare

foliis breviter obtuse petiolatis, obtuse ovatis
(distant 3–5 mm) v. fere ovatis
ramis oppositis v. subverticillatis
spica oppositis gracilis fere 5 articulatis (-6)

articuli gracilis 2 × (2–3) floris

flores 2 × 2 sessiles.

5602

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LEITCH.
DRUGGIST & PHARMACEUTIST.
Cor. Fourth & Olive Sts. St. Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Rhamnus rubra (Lin.) Griseb.

spinae 2–4 (6) articulati racemi
axillari 2× (9–3-) flori androgyni;
baccae nitidae granulatae nitidae
ut semina ovalli

var. brevispina in Antillis

Edekla Lourth Ouvid
p. 120

5603

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Smith & Gruler
DRUGGISTS
Corner Fifth and Market Streets
Opposite Market House
Saint Louis

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

725 Gregg

March 1 1872

×4

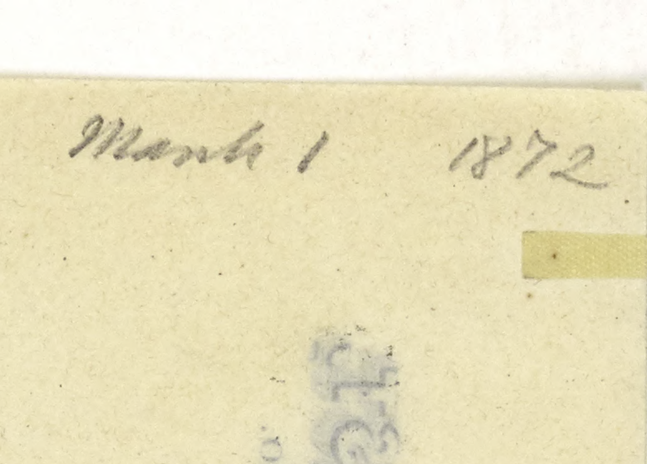
very young bud of a spike with the prophylla a a

×4

very fruit

8–10 flowered heads

apparently 2×4 flowers on 2d joint and about 2 on 3d joints



probable arrangement of flowers

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

5604

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

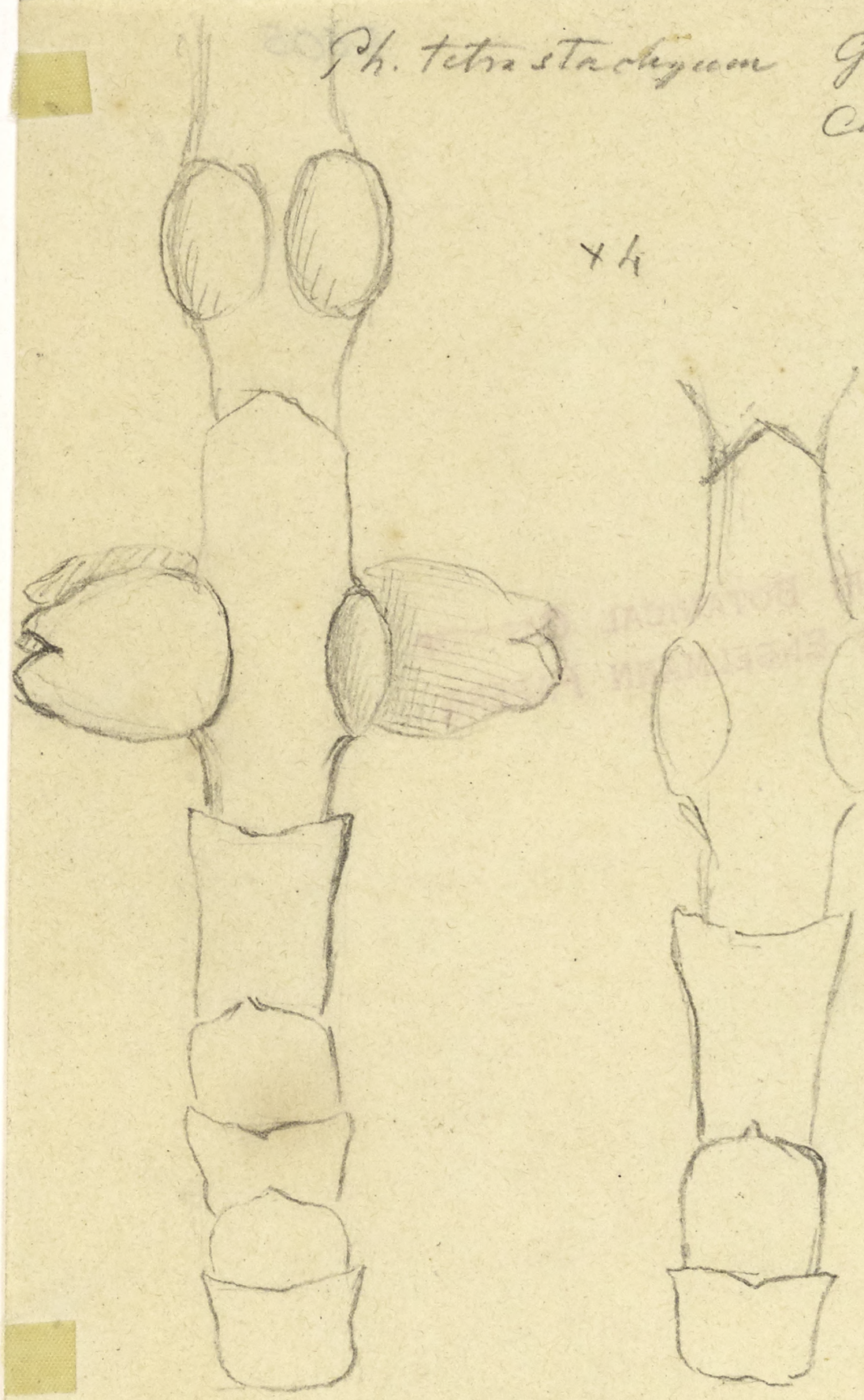
ALEX. LETICH.
APOTHECARY & PHARMACEUTIST.
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

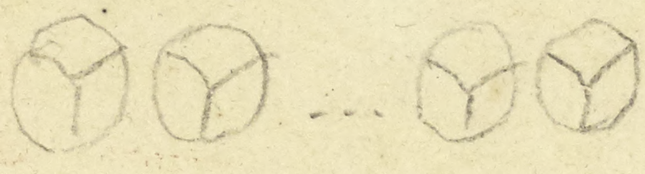
0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

March 3 1872

Ph. tetrastachyum Griseb
Cuba Wright # 1300

×4





MISSOURI BOTANICAL GARDEN
cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved

5605

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. FLETCH.

APOTHECARY & DRUGGIST.

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

ALEX. LETICH,
APOTHECARY & CHEMIST,
Marble Building Cor Fourth & Olive Sts. St. Louis, Mo.

Griseb. Plantæ Wrightianæ Cubenses,

Mem Am. Acad VIII. 6. (1860)

p. 191

Rhexia tetrastachya n. sp.

ramulis compresse decurrenti-alatis; foliis obovatis apice rotundatis in petiolum attenuatis obsolete pauci-venis, venis a med'ano infra medium recedentibus; spicis in axillis solitariis foliis 2-4-plo brevioribus articulis 4-floris; floribus tetrastichis; bacris a basi ovata oblongatis.

R. ramosa tetrastachya Wright ms. — Prope Monte Verde in Guettarda parasitica.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Phor. tetrastachyum Griseb. Wright 1300
(ought to be tetrastichum)

Glabrous
rami alato-anceps
folia obovata obtusa 3(–5) nervia
spicae oppositae (gracilescentes ex Griseb) 6–10 articulae
articuli breves 2 × 2 flori paucisperi
(flores 2 × 2 seriati
articuli (steriles) 3–5 ad basin spicae) 4–7 floriferi

over

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9095

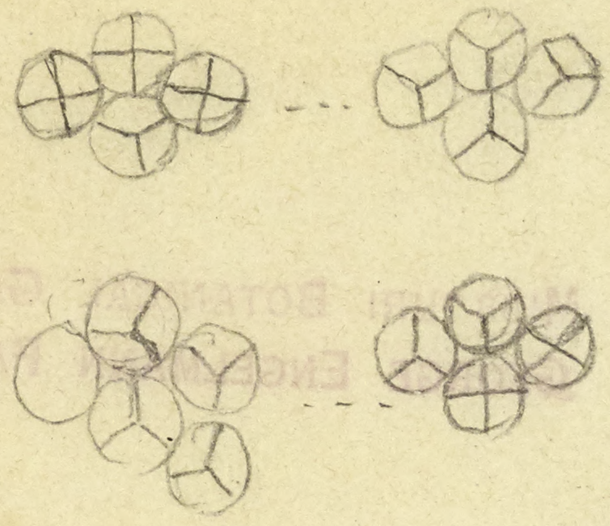
0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

722 Gregg

Phor. tetrastachya Spic. March 22 1892

Cr. [illegible] 1303

spikes not yet in flower

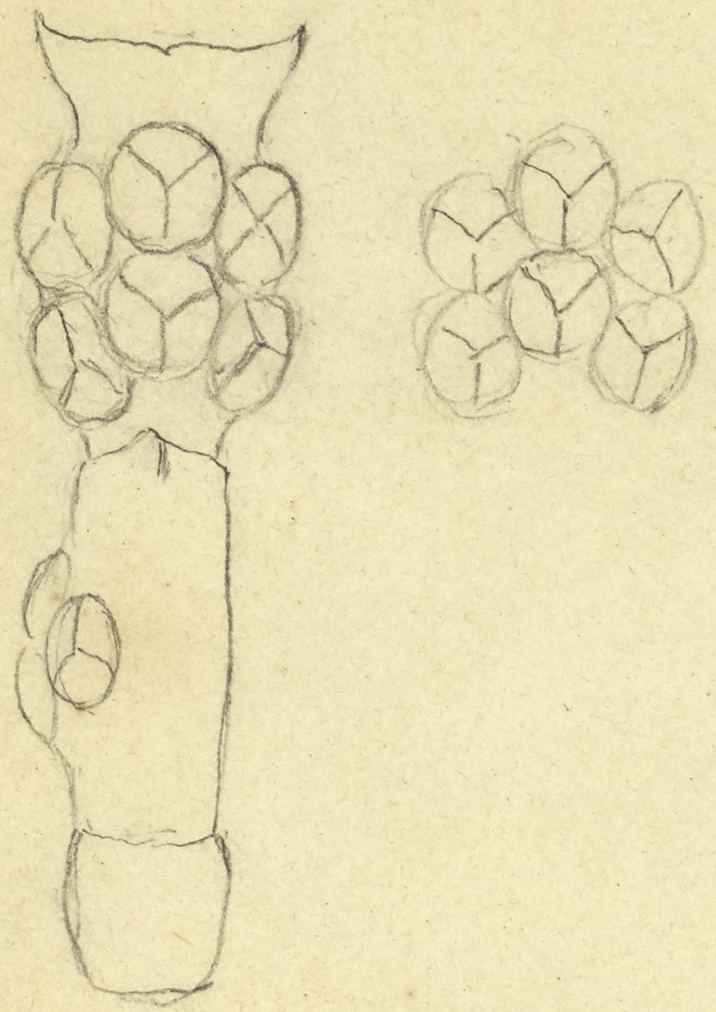


6-7 joints

lowest sterile

2^2 usually bearing flowers only on one side

3^2 on each side 5-6 flowered others more or less 4 flowered



4/c

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

5607

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LEITCH.

APOTHECARY & DRUGGIST,

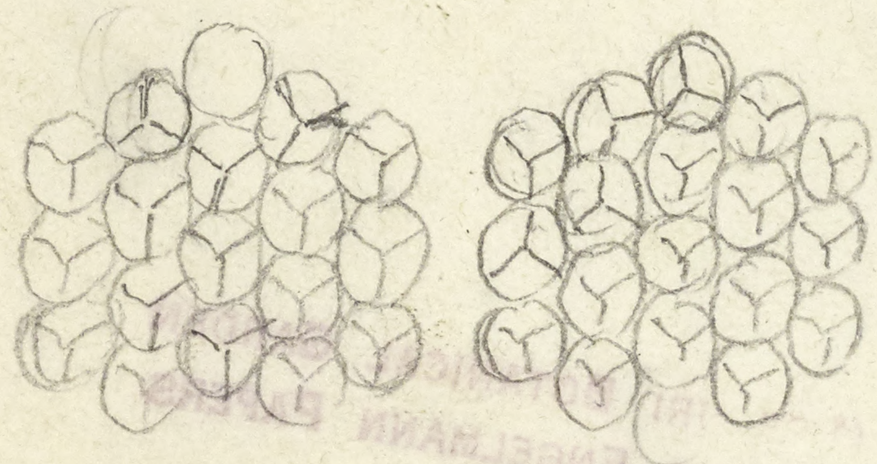
Marble Building, Cor. Fourth & Olive Sts. St. Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

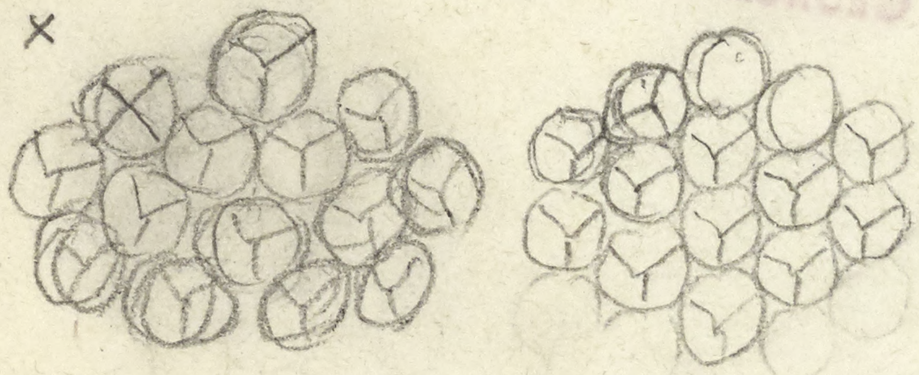
Nemandra Reichenbachii April 10 1872

Max. in Seemann
(ex Hb Gray)

x4



x



flower
x10

x very common arrangement (not in vertical series)

also a single plant's flowers

Pollen x415

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

5608

MO BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Smith & Curtis
DRUGGISTS
Corner High and Market Streets

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Phor Reichenbachii
fide Oliver

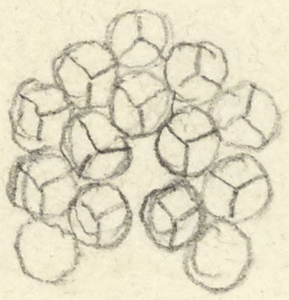
♂

April 11 1872

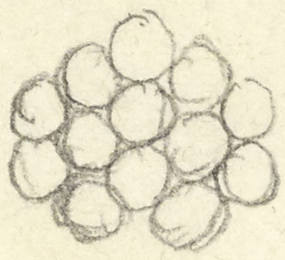
Follow. X 415

Narrador Mexico, Liboun 1/43

In my specimen 6 fertile joints



opposite
side
nearly same

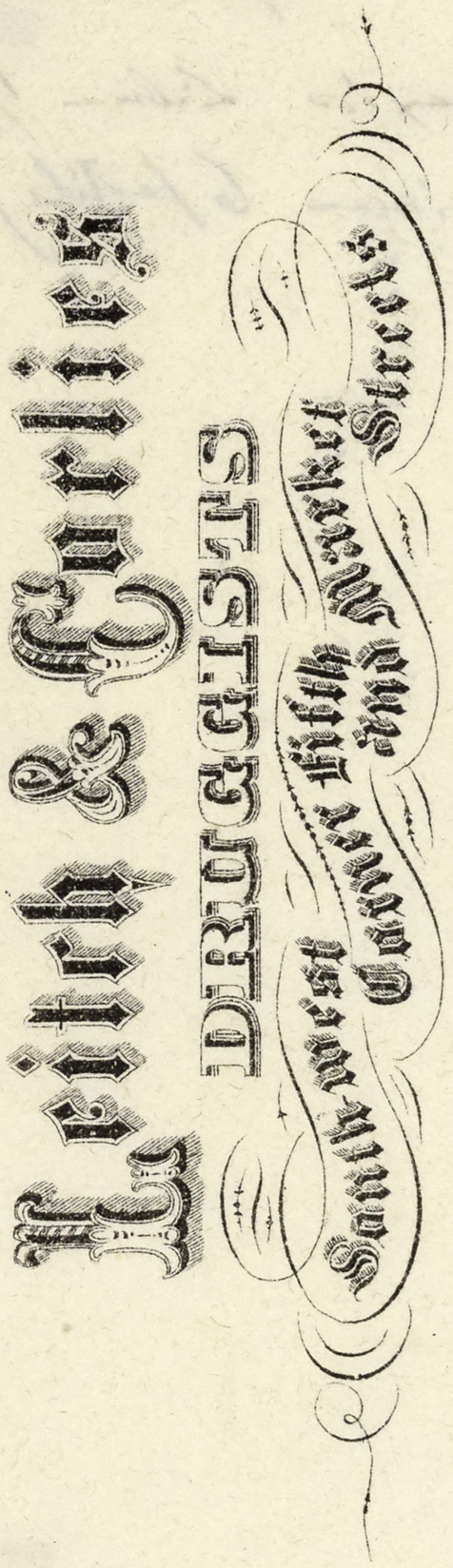


MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

5609

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

725 Gray

cinereo-puberulis

caulis laevis

foliis parvis obovatis 3-nervis,

spicis oppositis abbreviatis, brevissime

pedunculatis irregulariter glomerulatis

8–10 in singulo vel duobus oppositis

disperse.

glomerulis ~~2-3 floris~~ globosis

pedicellis immaturis 3 floris diam.

pubescentibus, floris fructiferis

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

5610

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LEITCH.

APOTHECARY & PHARMACEUTIST

Marble Building Cor Fourth & Olive Sts. St Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN